What is claimed is:

- A method for the enhanced production of bacterial toxins comprising cultivating a toxin producing bacteria wherein toxin expression inhibitors formed by said toxin producing bacteria are eliminated or reduced.
- 2. The method according to claim 1 wherein said toxin-producing bacteria is selected from the genus consisting of Bordetella, Clostridium, Staphylococcus, Salmonella, Shigella, Vibrio and Escherichia.
- 3. The method according to claim 2 wherein said toxin producing bacteria is Bordetella pertussis or Bordetella bronchiseptica.
- 4. The method according to claim 1 or 3 wherein said toxin is pertussis toxin (PT) or pertactin.
- 5. The method according to claim 1 wherein said toxin expression inhibitor is sulfate ion.
- 6. The method according to claim 5 wherein said sulfate ion is eliminated or reduced from within a bacterial cell or culture media using a method selected from the group consisting of;
 - a) adding a composition to said bacterial culture media that forms a substantially insoluble complex with said sulfate ion;
 - b) providing said bacterial culture medium that is deficient, or has a reduced concentration of sulfate ion metabolic precursors; and
 - c) providing a cysteine desulfinase knockout mutant bacteria.

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- 7. The method according to claim 6, wherein said composition is a soluble metal salt.
- The method according to claim 7, wherein said soluble metal salt is BaCl₂ or BaBr₂.
- 9. The method according to claim 8, wherein said soluble metal salt is a soluble salt of Pb(II), Sr(II) or Ag(II).
- The method according to claim 6 wherein said sulfate ion metabolic precursor is cysteine.
- 11. The method according to claim 6 where in said bacterial culture medium that is deficient, or has a reduced concentration of sulfate ion metabolic precursors further comprises a soluble metal salt that forms a substantially insoluble complex with said sulfate ion
- 12. The method according to claim 6 wherein in said cysteine desulfinase knockout mutant bacteria is a recombinant Bordetella pertussis or Bordetella bronchiseptica.
- 13. A method of cultivating *B. pertussis*, comprising cultivating *B. pertussis* in the presence of an effective amount of one or more soluble metal salts that form a substantially insoluble complex with sulfate.
- 14. The method of claim 13, wherein the soluble metal salt is a Ba(II) halide.
- 15. The method of claim 13, wherein the soluble metal salt is BaCl₂ or BaBr₂.

- The method of claim 13, wherein the soluble metal salt is a soluble salt of Pb(II), Sr(II) or Ag(II).
- 17. A method of making a culture medium that supports B. pertussis growth and prevents or decreases inhibition of PT expression by sulfate, comprising admixing a B. pertussis culture medium with an effective amount of one or more soluble metal salts that form a substantially insoluble complex with sulfate.
- 18. The method of claim 17, wherein the soluble metal salt is a Ba(II) halide.
- 19. The method of claim 17, wherein the soluble metal salt is BaCl₂ or BaBr₂.
- 20. The method of claim 17, wherein the soluble metal salt is a soluble salt of Pb(II), Sr(II) or Ag(II).
- 21. A culture medium that supports the growth of B. pertussis comprising an amount of one or more soluble metal salts that form a substantially insoluble complex with sulfate, wherein said amount prevents or reduces the inhibition of PT expression by sulfate.
- 22. The culture medium of claim 21, wherein the soluble metal salt is a Ba(II) halide.
- 23. The culture medium of claim 21, wherein the soluble metal salt is BaCl₂ or BaBr₂.
- 24. The culture medium of claim 21, wherein the soluble metal salt is a soluble salt of Pb(II), Sr(II) or Ag(II).

- 25. A method of producing PT comprising growing *B. pertussis* in a *B. pertussis* culture medium comprising an effective amount of a soluble metal salt that forms a substantially insoluble complex with sulfate, and isolating the PT from the culture medium.
- 26. The method of claim 25, wherein the soluble metal salt is a Ba(II) halide.
- 27. The method of claim 25, wherein the soluble metal salt is BaCl₂ or BaBr₂.
- 28. The method of claim 25, wherein the soluble metal salt is a soluble salt of Pb(II), Sr(II) or Ag(II).